



International Business Machines Corporation
Office Products Division
Customer Engineering

Electronic Typewriter

Call Prevention Check

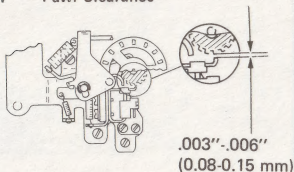
Z241-6317-0

Model 50/60/75

The call prevention check helps reduce service calls by ensuring that KEY areas of the machine are checked on each service call. With practice it can be done in seven minutes or less. CEs may include additional checks.

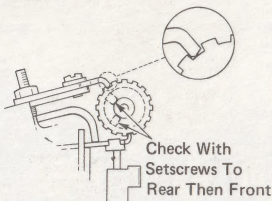
ESCAPEMENT

1 — Pawl Clearance



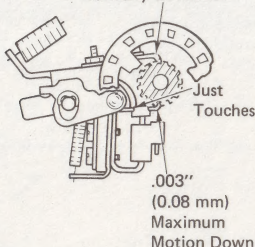
2 — Inhibitor

Inhibitor Enters Ratchet Notch Causing Slight Rotation With Ratchet Biased Top To Rear Then To Front

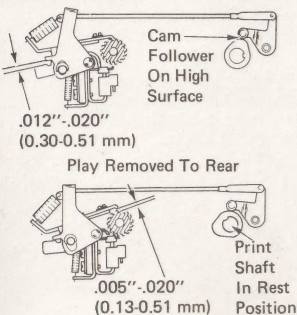


3 — Stop Screw

Manually Bottomed

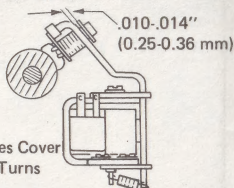


4 — Escapement Link

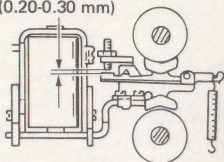


POWER MODULE

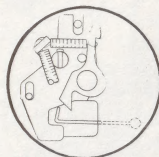
1 — Hold Carrier And Depress Backspace. Check:



$.008''-.012''$
(0.20-0.30 mm)

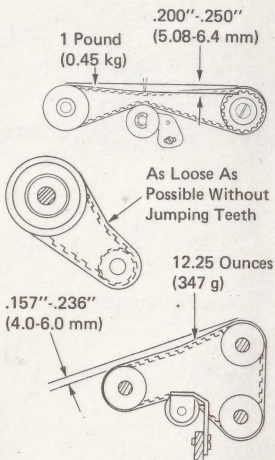


2 — Filter Bail Drive (Use The "B")



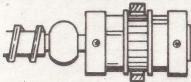
$.000''-.016''$ (0.38 mm)
Extra Motion After Pawl Restores

BELT TENSIONS



LEADSCREW TORQUE CLUTCH

Adjust For Carrier Tension Of 2-4 lbs. (0.9-1.8 kg) At Low Speed – In Both Directions

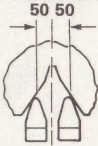


CARRIER

1 – Rotate Homing

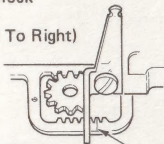
Zero Rotate

Ensure Rack Plate Home Is Correct



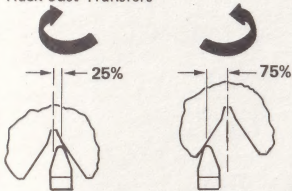
2 – Pin Block

(Left To Right)



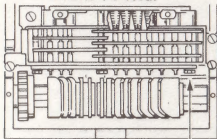
Shift Operation
Print Shaft Half Cycled
Rack Just Transfers

Scribe Mark



Headplay Removed In The Clockwise Direction
Headplay Removed In The Counter-Clockwise Direction

Front To Rear



(Use Tab Card)

Selection Cams Off High Point .006"-.009" (0.15-0.23 mm)

3 – Selection Cam Fine Timing

Withdrawal
Tilt 2-6 Rotate Character



4 – Tilt Ring

(Play Removed)



Tilt 0 Position



Tilt 2 Position

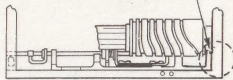
5 – No. 2 Solenoid Check:

Depress the No. 2 solenoid and hand cycle (twice) the print shaft. Observe the rotate rack and pinion. Check for smooth transfer in the home and +6 position.

6 – No. 3 Solenoid Check:

Depress the No. 3 solenoid and hand cycle the print shaft.

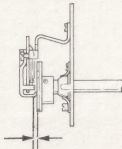
Rotate Cam Must Clear Shift Cam Follower During R-5 Selection



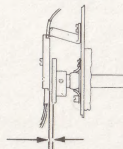
PRINT FEEDBACK

Model 50/60

Model 75



.005"-.020" (0.13-0.51 mm)



.005"-.020" (0.13-0.51 mm)

Ensure that excessive print shaft end play does not cause the PFB magnet or print shaft to touch the PFB switch.

PRINT SHAFT TIMING

Print Shaft Cycle Clutch Latched



Check Motor Pawls For Wear

Strike Up — (Print Quality — Proper Characters)

Bridging — Depress two keybuttons together. Check for malselection at left-center-right sides of keyboard.

Escapement/Carrier Selection/Correction Test

Type L/C repeat X's
Code I } xxxxxxxxxxxxxx
Correct entire line.

Ribbon — Check spread and height of both ribbons.

Index — Check for reliable indexing.

Check all electrical connections for proper connection.

Clean — Card Holder, All Rubber, Covers

LUBRICATION

No. 23 Grease — PSCC (Check For Loose Arbor), Keyboard Clutch, Thin Film On Escapement Ratchet

No. 10 Oil — Power Module Bearings, Print Shaft

Note: Refer to the lubrication guide in the APM for additional lubrication as required.

CAM BREAKAGE QUICK REFERENCE CHECK

Type Of Break

Corrective Action

Pin Entered The Wrong Track



Break Here or Here

Replace The Pin Block
Check/Adjust/Replace PFB
Check For Extra Cycles Of PSCC

Also check:

*Motor pawls, drive belt tension
Print shaft belt tension, loose PSCC arbor
Check for Good Positive Drive
Check/adjust the timing and selection adjustments*

Rack Fails To Transfer Properly

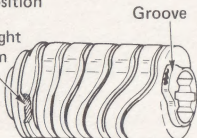
1) Home Position

Break in Left Side of Cam Follower Track

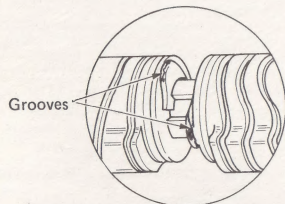


2) Shift Position

Break in Right Side Of Cam Follower Track



3) Home Position And Grooves Present



Check Pin Block Adjustment (CEM 109)
Check For Bent Rotate Cam Follower
(See Bent Cam Follower Check In APM)

Also check:

*Rack plate home adjustment
Rack transfer detent springs
Rack bracket end clearance — bail shaft bushing
Any binds in the rack transfer mechanism that may cause the rack not to transfer properly
Check for Good Positive Drive*

Replace Rack Transfer Bracket And Check The Above.